

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 56015820 A

(43) Date of publication of application: 16.02.81

(51) Int. Cl

B01D 53/02

(21) Application number: 54091620

(22) Date of filing: 20.07.79

(71) Applicant: NIPPON STEEL CORP

(72) Inventor: KAYA KAZUAKI
UTAMURA MASARU
HASHINUMA IKUO

(54) SEPARATOR FOR MIXED GASES

(57) Abstract:

PURPOSE: To continuously separate mixed gases by moving and rotating an annular packed tank with a molecular sieve.

CONSTITUTION: The tank 5 to be packed with the molecular sieve is of an annular form and is also divided into a number of the packing chambers 7 by partition plates 6 provided radially inside. The packing chambers 7 are packed with a powdery, granular, or hot-press molded molecular sieve and also provided with lower and upper plates 8 and 8' made of an air-permeable metal netting serving as a filter. When compressed air is supplied through the air inlet 2', oxygen, for example in the incoming air is adsorbed to the molecular sieve in the packing chamber 7, nitrogen alone is flowed out of the outlet 3', and the adsorbed oxygen is sucked and desorbed at the position of the suction port 4'.

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